



# The Ozark Ambassador

National Weather Service Springfield, Missouri

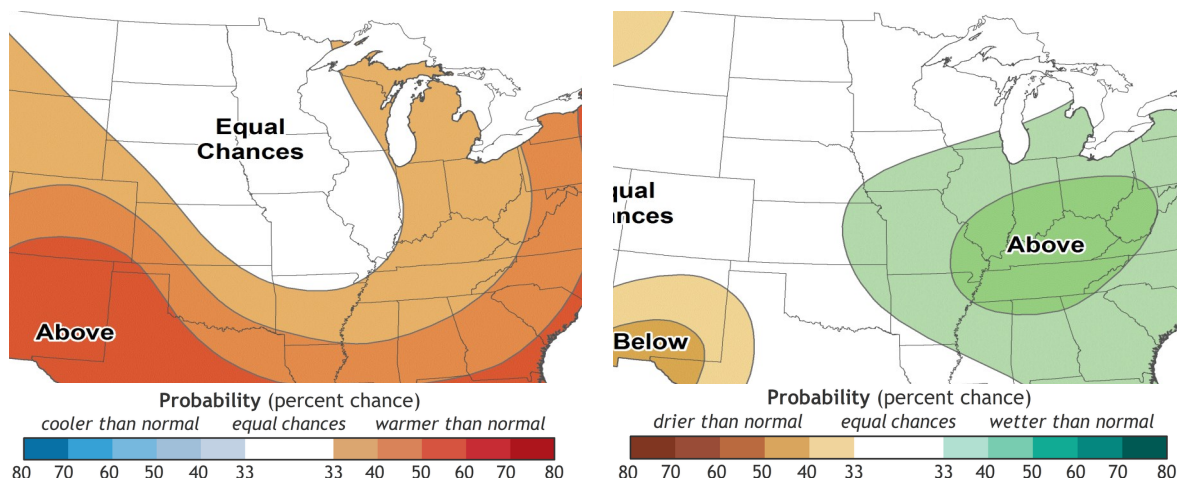


## Preparing For Summer 2023

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<b>Key Websites</b>  <a href="#">DSS Packet</a> <a href="#">Weather Story</a> <a href="#">Weather Prediction Center</a> <a href="#">Climate Prediction Center</a> <a href="#">Storm Prediction Center</a>	

### Summer Outlook



The Summer 2023 outlook favors near normal temperatures and slight above normal precipitation. For more information visit: [Climate Prediction Center](#).

### Heat Safety Awareness Week—May 15-19

Join NWS Springfield and the [National Integrated Heat Health Information System \(NIHHIS\)](#) for NIHHIS Heat Safety Awareness social media campaign on May 15-19, 2023. This campaign is a federal collaboration on heat communication to raise awareness about the risk of extreme heat, and to provide audiences with information about preparedness and actions to take to prevent heat-related illnesses and death. In this social media campaign, participating agencies will be sharing resources, guides, infographics, and key messages related to heat and health.

Monday	Tuesday	Wednesday	Thursday	Friday
Heat-Related Illness	Vulnerable Populations	Childhood Heatstroke	Prevention and Preparedness	Heat & Heat-Health-Related Tools

# Understanding Heat

## Wet Bulb Globe Temperature and Heat Index

### HOW DOES WBGT differ from HEAT INDEX

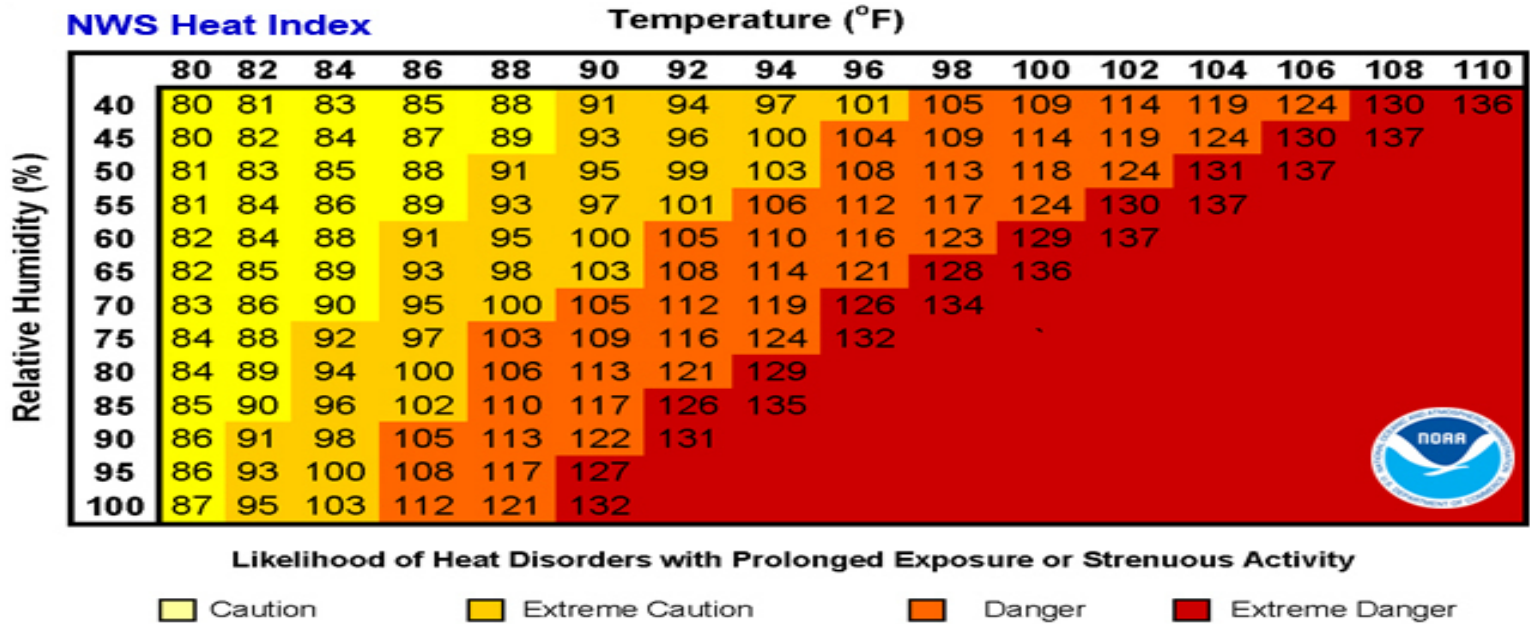
**WET BULB GLOBE TEMPERATURE**  
The Wet Bulb Globe Temperature (WBGT) is a parameter that estimates the effect of temperature, relative humidity, wind, and solar radiation on humans.

**HEAT INDEX**  
The traditional measure of what the temperature feels like to the human body when relative humidity is combined with the air temperature, also known as apparent temperature.

	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●

[Wet Bulb Globe Temperature Forecast](#)

## Heat Index Chart



[Wet Bulb Globe Temperature and Heat Index Information](#)

NWS Springfield Heat Products	
Excessive Heat Watch	Issued for a heat index $\geq 110$ degrees or a heat index $\geq 105$ degrees for 4 days within 24 to 48 hours.
Excessive Heat Warning	Heat index around $110^{\circ}$ or higher. Heat index $\geq 105^{\circ}$ for 4 or more consecutive days.
Heat Advisory	Heat index around $105^{\circ}$ or higher. Heat index $100\text{-}104^{\circ}$ for 4 or more consecutive days.



# Heat Safety

## Heat Exhaustion vs. Heat Stroke

Extreme heat is responsible for the highest number of annual deaths among all weather-related hazards.

*Tips to keep in mind during high heat:*

- Find air conditioning.
- Avoid strenuous activities.
- Wear light clothing.
- Check on family members and neighbors.
- Drink plenty of fluids.
- Watch for heat cramps, heat exhaustion and heat stroke.
- Never leave people or pets in a closed car.

[Heat Illness Safety Information](#)

Heat Exhaustion	Heat Stroke
<p><b>ACT FAST</b></p> <ul style="list-style-type: none"> <li>• Move to a cooler area</li> <li>• Loosen clothing</li> <li>• Sip cool water</li> <li>• Seek medical help if symptoms don't improve</li> </ul> <p>Dizziness Thirst Heavy Sweating Nausea Weakness</p>	<p><b>ACT FAST</b></p> <p><b>CALL 911</b></p> <ul style="list-style-type: none"> <li>• Move person to a cooler area</li> <li>• Loosen clothing and remove extra layers</li> <li>• Cool with water or ice</li> </ul> <p>Confusion Dizziness Becomes Unconscious</p>

*Heat exhaustion can lead to heat stroke.*

*Heat stroke can cause death or permanent disability if emergency treatment is not given.*

Stay Cool, Stay Hydrated, Stay Informed!

## Staying Safe in the Heat

### HEAT DANGER BEYOND HEATWAVES



Most heat-related deaths occur outside of heat waves. Stay Weather-Ready!



**Avoid overexertion and stay hydrated.** Heat stroke can occur even during moderate heat.



**NEVER** leave people or pets in a vehicle. Hot car deaths occur year-round.



**Assist those who are at higher risk** for heat-related illness, including children, pregnant people, and older adults.



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### HEAT SAFETY WHEN WORKING



Drink a cup of cool **water** every 20 minutes, even if you aren't thirsty. For long jobs, drink a beverage with electrolytes.



Take regular breaks to **rest**. During hot conditions, skipping breaks is not safe!



Seek periodic breaks in the AC if possible. Spend time in the **shade** when outdoors.



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### STAY INDOORS DURING HEAT WAVES



Stay indoors in **air conditioning** whenever possible. If your home doesn't have AC, check if your area has a cooling center.



Remain hydrated by drinking **water** and avoiding alcohol.



Check on those **most vulnerable** to heat, including children and the elderly.



If you must go outdoors, go early or late in the day, and dress in light-colored clothing.



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### PROTECT YOURSELF FROM HEAT & SUN



Drink plenty of **water** and avoid alcohol. Beverages with electrolytes can also help protect against heat stress.



Apply **sunscreen** (SPF 30 or higher) every two hours.



Wear lightweight, loose-fitting, and **light-colored clothing**.



Take regular breaks in the **shade**.



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# Helping Others in the Heat

## Vulnerable Populations

### Heat Impacts: *Vulnerable Populations*

**PREGNANT****NEWBORNS****CHILDREN****ELDERLY****CHRONIC ILLNESS**

Everyone is at risk from the dangers of extreme heat, but these groups are more vulnerable than most. Age and certain conditions make the body less able to regulate temperature.



NEVER leave anyone alone in a closed car



Use air conditioners and stay in the shade



Drink plenty of water, even if not thirsty



Wear loose-fitting, light-colored clothing

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## Helping Others

### HELPING OTHERS: *EXTREME HEAT*



NEVER leave anyone (or pets) alone in a locked car



Monitor others exercising or playing sports, ensuring frequent breaks



Bring water to outdoor activities to keep everyone hydrated



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# Understanding Droughts

## Drought Impacts

### Drought Impacts



#### Agriculture

Farms, ranches, and grazing lands suffer, and increases the cost of their products



#### Public Health

A decrease of water can lead to an increase of illness, disease, mortality rates, and adverse mental health



#### Ecosystems

Harms fish, wildlife, and plants, as well as the benefits these ecosystems provide



#### Wildfire Management

Dry, hot, and windy weather combined with dried out vegetation can lead to more large-scale wildfires



#### Manufacturing

Interruptions in the water supply can result in a reduction of productivity or closure of facilities



#### Energy

Production of all types of energy requires water, and drought can severely impact energy systems and prices

## Drought Intensity

### Drought Intensity Classification

	D0	Abnormally Dry	Going into drought, short-term dryness slowing planting, growth of crops and pastures; fire risk above average. Coming out of drought, some lingering water deficits, pastures or crops not fully recovered.
	D1	Moderate Drought	Some damage to crops, pastures, fire risk high; streams, reservoirs or wells low, some water shortage developing or imminent, voluntary water use restrictions requested.
	D2	Severe Drought	Crop or pasture loss likely, fire risk very high, water shortages common, water restrictions imposed.
	D3	Extreme Drought	Major crop/pasture losses, extreme fire danger, widespread water shortages or restrictions.
	D4	Exceptional Drought	Exceptional and widespread crop and pasture losses, exceptional fire risk, shortages of water in reservoirs, streams and wells causing water emergencies.

For more information check out the [National Drought Mitigation Center](#) and [National Integrated Drought Information System](#).



# Outdoors and Weather Safety

## Lightning

**Your chance of being struck by lightning greatly increases when remaining outdoors during a thunderstorm.**

Lightning can strike from up to 10 miles away.

**When Thunder Roars, Go Indoors!**

**See a Flash, Dash Inside!**



Some of the activities people were doing when they were recently struck by lightning include:



Golfing



Boating



Running



Grilling



Walking



Construction



Riding



Gardening



Swimming

## Your Safe Place from Lightning



Lightning strikes the U.S. 25 million times a year, which sometimes results in death or permanent injury. **You are safest indoors or inside a hard-topped and enclosed vehicle.** If you hear thunder or see lightning, take shelter immediately!

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## Weather-Ready Outdoors

### Weather-Ready for Nature?



#### Flash Flooding

Heavy rainfall can cause flooding in a flash. Use caution when hiking in canyons or camping near streams and rivers.



#### Excessive Heat

Bring extra water and remain hydrated. Use sunscreen and wear light, loose-fitting clothing. Take breaks in the shade.



#### Lightning

If you hear thunder or see lightning, go immediately to an enclosed building or hard-topped vehicle (if possible). Avoid isolated tall trees or ridge tops.

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### Weather-Ready for Outdoor Sports?



#### Heat

Wear light, loose-fitting clothing, stay hydrated and take breaks in the shade. During excessive heat, avoid heavy activity and direct sunlight.



#### Air Quality

Stay inside during air quality alerts. Children, seniors, and those with health problems are especially at risk.



#### Lightning

If you hear thunder or see lightning, go immediately to an enclosed building or hard-topped vehicle.

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**When Thunder Roars, Go Indoors!**

**STOP all activities.**

**Seek shelter in a substantial building or hard-topped vehicle.**

**Wait 30 minutes after the storm to resume activities.**



[www.lightningsafety.noaa.gov](http://www.lightningsafety.noaa.gov)



## BEWARE OF FLOODS WHEN CAMPING



Heavy rain can quickly cause flash flooding. Use caution if camping near a stream, river, or in a low-lying area.



**Stay informed.** Be able to get the forecast online or with a NOAA Weather Radio.



**Get to higher ground immediately** if alerted to flooding.



**Never walk or drive through floodwater.**

It only takes 6 inches to knock you over and only 12 inches to sweep a car way.



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# Reporting Weather Information

## Ways to Send Reports

### Send Report to NWS

 Call 417-863-8028  
Text 417-830-7659

 [contact.sgf@noaa.gov](mailto:contact.sgf@noaa.gov)

 @NWSSpringfield

 @NWSSpringfield

### [iNWS Storm Reports](#)



NOAA Storm Reports  
Alerting the NWS to local weather

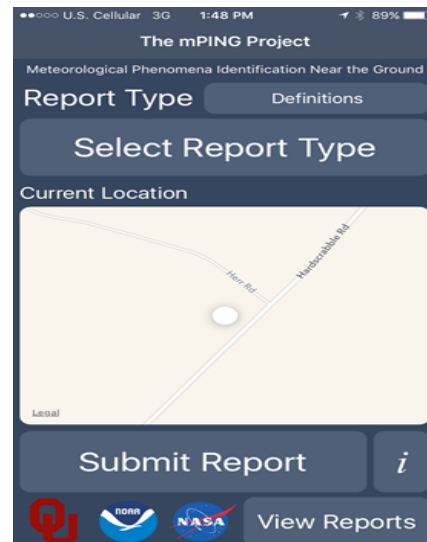
Report Type -> Details -> Location -> Review and Send

Please select a report type ▼

Back Next

[Privacy policy for weather reports](#)

### [mPING App](#)



## Join CoCoRaHS Volunteer Program



### What is CoCoRaHS?

The Community Collaborative Rain, Hail and Snow Network, is a non-profit, community based, network of volunteers who measure and report rain, hail and snow in their backyards. Additional [CoCoRaHS info](#).

### Who uses CoCoRaHS?

CoCoRaHS is used by a wide variety of organizations and individuals. The National Weather Service, other meteorologists, hydrologists, emergency managers, city utilities (water supply, water conservation, storm water), insurance adjusters, USDA, engineers, mosquito control, ranchers and farmers, outdoor & recreation interests, teachers, students, and neighbors in the community are just some examples of those who visit our Web site and use our data.

### Volunteers of All Ages Welcome!

Everyone can participate, both young, old, and in-between. The only requirements are an enthusiasm for watching and reporting weather conditions and a desire to learn more about how weather can affect and impact our lives. [Check out the volunteers wanted flyer](#).

[Join CoCoRaHS Volunteer Program](#)

# Building a Weather-Ready Nation

## Becoming a Weather-Ready Nation Ambassador

### What do Weather-Ready Nation Ambassadors Do?

#### Promote Preparedness and Resiliency:

- ✓ Follow our social media and share our hazardous weather and safety posts.

#### Collaborate with the NWS:

- ✓ Let us know how we can help you and your community become more weather ready.

#### Serve as an example:

- ✓ Educate employees on workplace preparedness and encouraging personal preparedness at home.



[Click here to Learn More about Becoming an Ambassador](#)

## Following the NWS and Summer Safety Campaign



Office: (417) 863-8028



[contact.sgf@noaa.gov](mailto:contact.sgf@noaa.gov)



[weather.gov/springfield](http://weather.gov/springfield)



[@NWSSpringfield](https://www.facebook.com/NWSSpringfield)



[@NWSSpringfield](https://twitter.com/NWSSpringfield)



[Youtube.com/NWSSpringfield](https://www.youtube.com/NWSSpringfield)



#### Summer Weather Safety Resources

[Heat](#)

[Lightning](#)

[Flood](#)

[Drought](#)

[Thunderstorm](#)

[Tornado](#)

#### Other Resources

[National Integrated Heat Health Information System \(NIHHIS\)](#)

[Missouri SEMA Heat Safety](#)

[Kansas Department of Health and Environment](#)

[CDC Tips for Preventing Heat Related Illness](#)

[NIOSH Heat Stress Safety](#)

[Missouri Cooling Centers](#)

**Follow NWS Springfield**

